# State of California AIR RESOURCES BOARD

# EXECUTIVE ORDER A-8-31 Relating to Certification of New Motor Vehicles

### BAYERISCHE MOTOREN WERKE AG

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That 1985 model-year Bayerische Motoren Werke AG exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

	Displacer	nent	Exhaust Emission Control Systems
Engine Family	Cubic Inches	(Liters)	(Special Features)
FBM2.7V5FAB7	164.3	(2.7)	Three-Way Catalyst with Closed Loop (Electronic Fuel Injection)

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The following are Hydrocarbons Grams per Mile	the certification emission standar Carbon Monoxide Grams per Mile	ds for this engine family: Nitrogen Oxides Grams per Mile
0.41	7.0	0.7

The following are the certification emission values for the above engine family:

Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile			
0.27	1.8	0.4			

BE IT FURTHER RESOLVED: That the listed models were certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.15 of Title 13, California Administrative Code which includes repair or replacement of emission control components up to 7 years or 75,000 miles if found defective by the Executive Officer.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-Powered Motor Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" (Title 13, California Administrative Code, Section 2290) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards as stipulated in "California Exhaust Emission Standards and Test Procedures for 1981 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2036).

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 13th day of November, 1984.

K. D. Drachand, Chief Mobile Source Division

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## Section 17.03.00 ARB Supplemental Data Sheets

Manufacturer _	BNY	Executive Order No.	A-8-31
Engine Family	FBM2.7V5FAB7	Evaporative Family _	EV 20
•		Engine CID (Liters)	(27) 164.3

### **ABBREVIATIONS**

Icnition System
CA-Centrifugal Advance
EEC-Electronic Engine Control
EI-Electronic Ignition
ESAC-Electronic Spark Advance
Control
VA-Vacuum Advance
VR-Vacuum Retard
BMCU - Bosch Motronic Control Unit
EID - Electronic Ignition Distributor

Exhaust Emissions Control System
AIP-Air Injection-Pump
AIV-Air Injection-Valve
CL-Closed Loop
EGR-Exhaust Gas Recirculation
EM-Engine Modification
OC-Oxidation Catalyst System
TR-Thermal Reactor
TWC-Three Way Catalyst System

Special Features
CCV-Compusion
Chamber Valve
CFI-Central Fuel
Injection
DID-Diesel
InjectionDirect
DIP-Diesel
InjectionPrechamber

MFI-Mechanical Fuel Injection TC-Turbocharged

Fuel System
CFI, CL, DID, DIP, EFI, MFI
nV-nVenturi Carburetor
VV-Variable Venturi
FI - Fuel Injectors
BMCU - Bosch Motronic Control Unit
AFM - Air Flow Meter

DRIVE SYSTEM: Front engine, rear wheel drive

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# TEST VEHICLE REQUIREMENTS

Engine Family

FBM2.7V5FAB7

Engine Code

Equiv. Test Weight

Actual Road Load Power\*

2.7 A4

2.7 M5

3 250 lbs.

9.5 hp

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# AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

 Mańu	enger Cars <u> </u>				E.O. :		,
	ne Family FBM2.7			CID (liter	164.3 - Type (2.7)	l - inline	six cyl.
Engine Code	Vehicle Models (If Coded see attachment)	Trans.		Ign. System Part No.	Fuel System Part No.	EGR Valve	Label Ident. Part No.
2.7 M5 2.7 A4	BMW 528e	м5 — А4 —	EID	200 007 522 365	EFI  BMCU  0 261 200 007  AFM  0 280 202 066  FI  0 280 150 126	n.a.	2 121 505 1 874 981
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Comments: See page 17-23 for abbreviations and evaporative emission family identification.

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